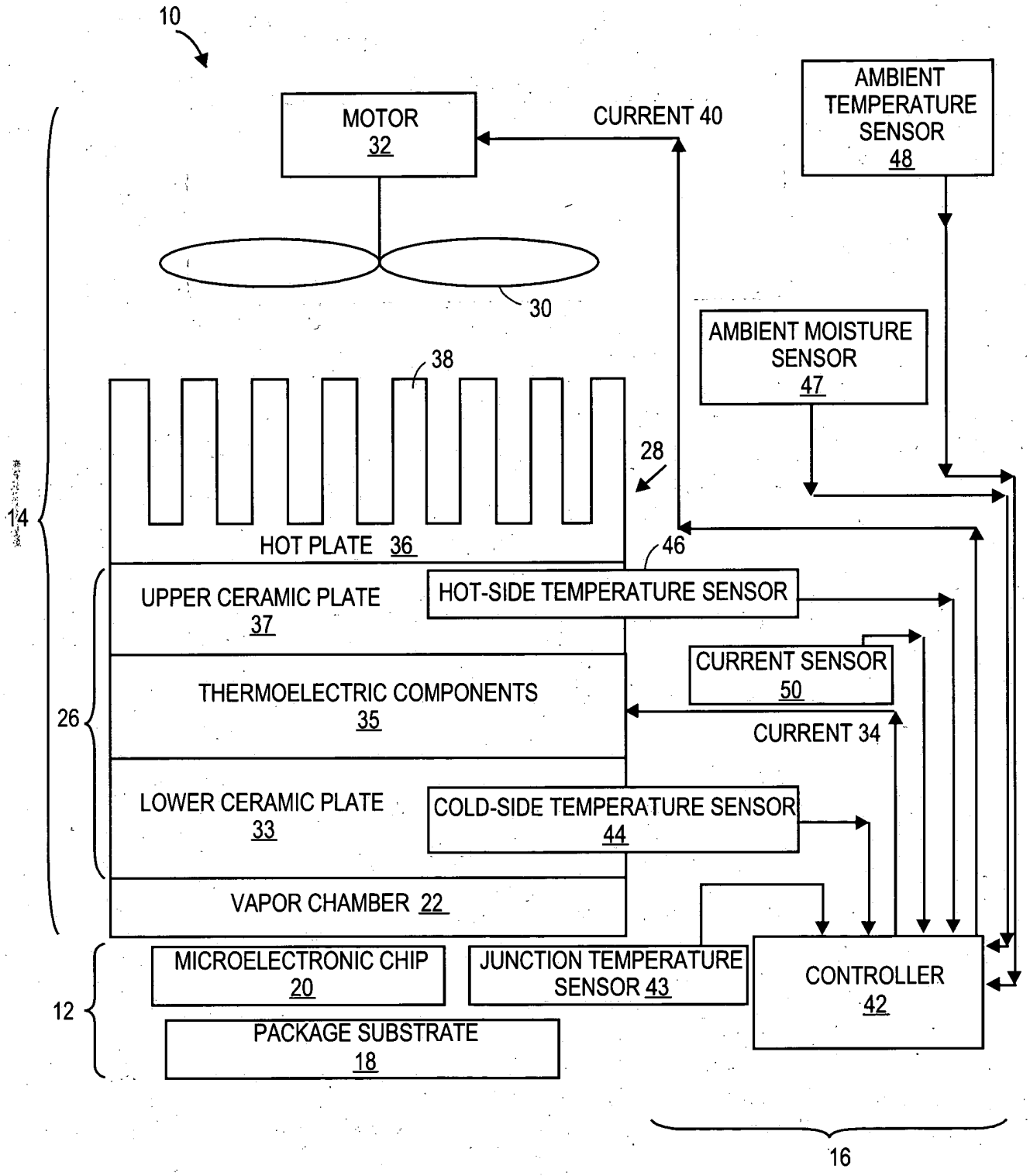
10
MOTOR
32
CURRENT 40
AMBIENT
TEMPERATURE
SENSOR
48
30
AMBIENT MOISTURE
SENSOR
47
38
28
14
HOT PLATE 36
46
UPPER CERAMIC PLATE
37
HOT-SIDE TEMPERATURE SENSOR
CURRENT SENSOR
50
THERMOELECTRIC COMPONENTS
35
26
CURRENT 34
LOWER CERAMIC PLATE
33
COLD-SIDE TEMPERATURE SENSOR
44
VAPOR CHAMBER 22
MICROELECTRONIC CHIP
20
JUNCTION TEMPERATURE
SENSOR 43
CONTROLLER
42
12
PACKAGE SUBSTRATE
18
16

FIG. 1

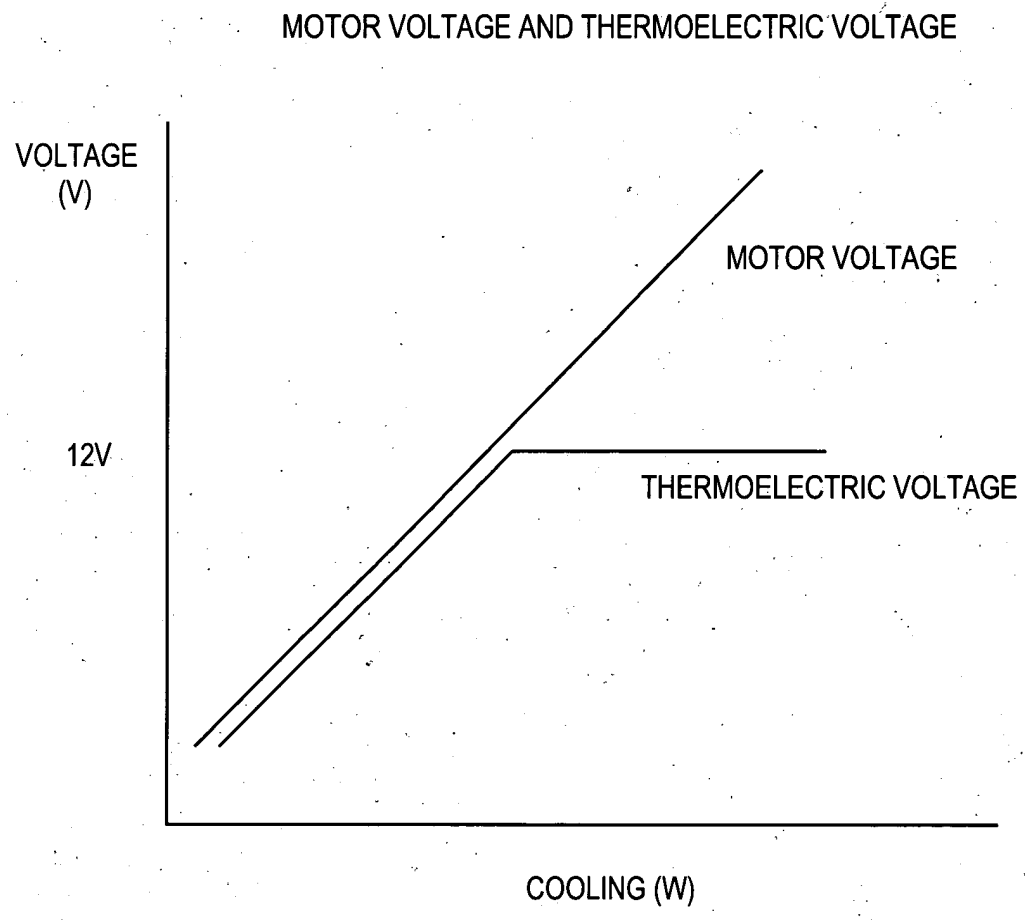
MOTOR VOLTAGE AND THERMOELECTRIC VOLTAGE
VOLTAGE
(V)
MOTOR VOLTAGE
12V
THERMOELECTRIC VOLTAGE
COOLING (W)

FIG. 2

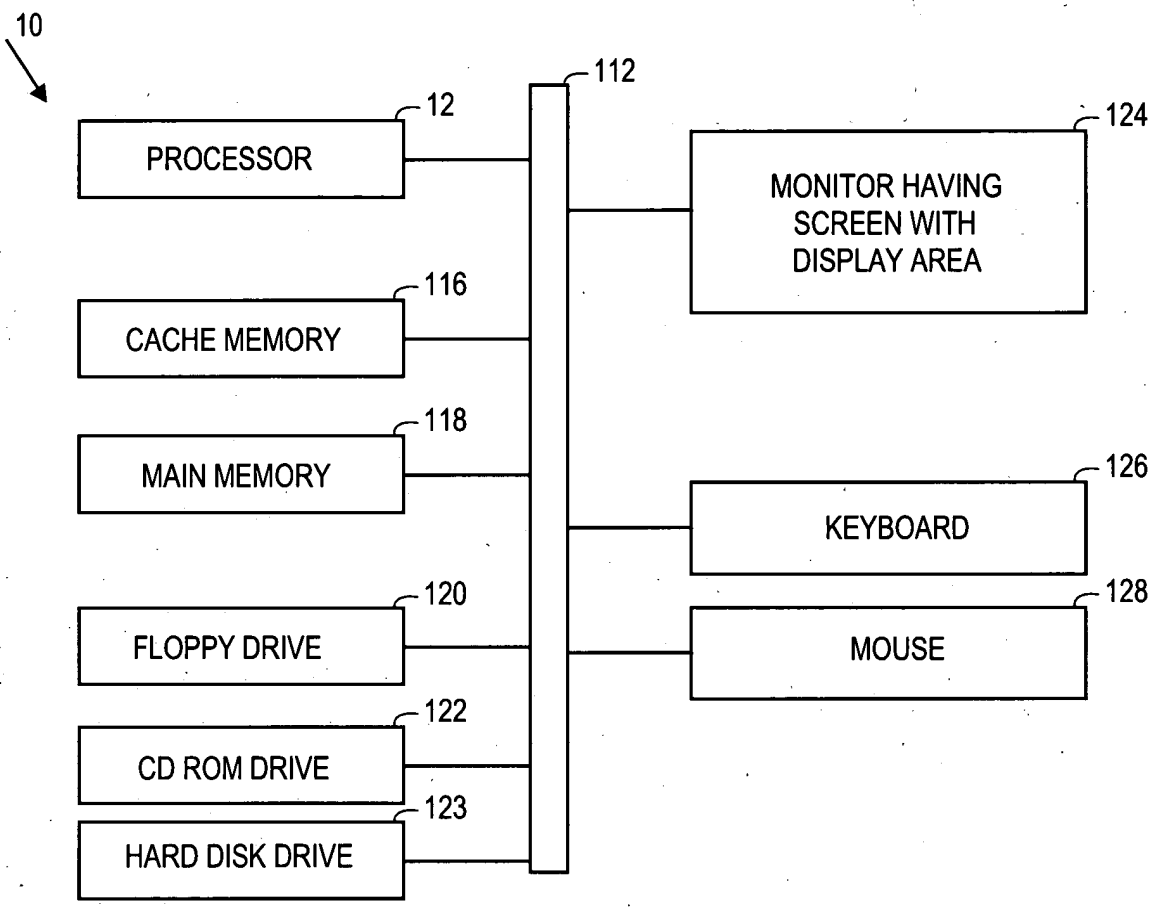
10
112
12
PROCESSOR
124
MONITOR HAVING SCREEN WITH DISPLAY AREA
116
CACHE MEMORY
118
MAIN MEMORY
126
KEYBOARD
120
FLOPPY DRIVE
128
MOUSE
122
CD ROM DRIVE
123
HARD DISK DRIVE

FIG. 3